

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Currently Amended) ~~The perpendicular magnetic recording system of Claim 2;~~ A perpendicular magnetic recording system comprising:

a perpendicular magnetic recording disk including magnetic recording tracks;

a perpendicular magnetic recording head including a perpendicular write pole movable in an arc across the perpendicular magnetic recording disk; and

means for moving the write pole radially outward across at least a portion of the disk for sequentially writing with the write pole onto adjacent magnetic recording tracks of the perpendicular magnetic recording disk to thereby substantially eliminate a skew angle effect; and

wherein the write pole is aligned at a first compensation angle A_1 with respect to the magnetic recording tracks when the write pole is located over an inward portion of the disk, the write pole is aligned at a second compensation angle A_2 with respect to the magnetic recording tracks when the write pole is located over an outward portion of the disk, the first compensation angle A_1 is from about 5 to about 15 degrees, and the second compensation angle A_2 is greater than about 1 degree.

5. (Original) The perpendicular magnetic recording system of Claim 4, wherein the first compensation angle A_1 is from about 6 to about 12 degrees, and the second compensation angle A_2 is from about 2 to about 6 degrees.

6. (Currently Amended) The perpendicular magnetic recording system of Claim 4, wherein the ~~means for sequentially writing comprises~~ means for

moving the write pole radially outward across at least a portion of the disk comprises an actuator arm.

7. (Currently Amended) The perpendicular magnetic recording system of Claim 6 4, wherein the write pole is moved radially inward across substantially all of the magnetic recording tracks of the disk during the sequential writing.

8. (Currently Amended) ~~The perpendicular magnetic recording system of Claim 6,~~ A perpendicular magnetic recording system comprising:

a perpendicular magnetic recording disk including magnetic recording tracks;

a perpendicular magnetic recording head including a perpendicular write pole movable in an arc across the perpendicular magnetic recording disk; and

means for moving the write pole radially inward across at least a portion of the disk for sequentially writing with the write pole onto adjacent magnetic recording tracks of the perpendicular magnetic recording disk to thereby substantially eliminate a skew angle effect; and

wherein the write pole is aligned at a first compensation angle A_1 with respect to the magnetic recording tracks when the write pole is located over an outward portion of the disk, the write pole is aligned at a second compensation angle A_2 with respect to the magnetic recording tracks when the write pole is located over an inward portion of the disk, the first compensation angle A_1 is from about 5 to about 15 degrees, and the second compensation angle A_2 is greater than about 1 degree.

9. (Original) The perpendicular magnetic recording system of Claim 8, wherein the first compensation angle A_1 is from about 6 to about 12 degrees, and the second compensation angle A_2 is from about 2 to about 6 degrees.

10. (Currently Amended) ~~The perpendicular magnetic recording system of Claim 1,~~ A perpendicular magnetic recording system comprising:

a perpendicular magnetic recording disk including magnetic recording tracks;

a perpendicular magnetic recording head including a perpendicular write pole movable in an arc across the perpendicular magnetic recording disk; and

means for sequentially writing with the write pole onto adjacent magnetic recording tracks of the perpendicular magnetic recording disk to thereby substantially eliminate a skew angle effect;

wherein the means for sequentially writing comprises means for moving the write pole radially outward across a portion of the disk and moving the write pole radially inward across another portion of the disk; and

wherein the write pole is moved radially outward, radially inward, or radially outward and radially inward, to a zero skew angle location on the disk during the sequential writing.

11. (Currently Amended) The perpendicular magnetic recording system of Claim 10, wherein the ~~write pole is moved radially outward to a zero skew angle location on the disk during the sequential writing~~ means for moving the write pole radially outward across a portion of the disk and moving the write pole radially inward across another portion of the disk comprises an actuator arm.

12. (Currently Amended) The perpendicular magnetic recording system of Claim 10 ~~8~~, wherein the ~~write pole is moved radially inward to a zero skew angle location on the disk during the sequential writing~~ means for moving the write pole radially inward across a portion of the disk and moving the write pole radially inward across another portion of the disk comprises an actuator arm.

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Currently Amended) ~~The perpendicular magnetic recording system of Claim 14;~~ A perpendicular magnetic recording system comprising:

a perpendicular magnetic recording disk including magnetic recording tracks; and

a perpendicular magnetic recording head including a perpendicular write pole movable in an arc across the perpendicular magnetic recording disk, wherein the perpendicular write pole has a trailing edge and a side edge, the side edge is aligned at

compensation angles with respect to the magnetic recording tracks, and the compensation angles remain greater than or equal to zero degrees when the write pole writes onto the magnetic recording tracks as the write pole moves in the arc across the magnetic recording tracks;

wherein the side edge of the write pole is aligned at a first compensation angle A_1 with respect to the magnetic recording tracks when the write pole is located over an inward portion of the disk, the side edge of the write pole is aligned at a second compensation angle A_2 with respect to the magnetic recording tracks when the write pole is located over an outward portion of the disk, the first compensation angle A_1 is from about 5 to about 15 degrees, and the second compensation angle A_2 is greater than about 1 degree.

18. (Original) The perpendicular magnetic recording system of Claim 17, wherein the first compensation angle A_1 is from about 6 to about 12 degrees, and the second compensation angle A_2 is from about 2 to about 6 degrees.

19. (Currently Amended) ~~The perpendicular magnetic recording system of Claim 14,~~ A perpendicular magnetic recording system comprising:

a perpendicular magnetic recording disk including magnetic recording tracks; and

a perpendicular magnetic recording head including a perpendicular write pole movable in an arc across the perpendicular magnetic recording disk, wherein the perpendicular write pole has a trailing edge and a side edge, the side edge is aligned at compensation angles with respect to the magnetic recording tracks, and the compensation angles remain greater than or equal to zero degrees when the write pole writes onto the magnetic recording tracks as the write pole moves in the arc across the magnetic recording tracks;

wherein the side edge of the write pole is aligned at a first compensation angle A_1 with respect to the magnetic recording tracks when the write pole is located over an outward portion of the disk, the side edge of the write pole is aligned at a second compensation angle A_2 with respect to the magnetic recording tracks when the write pole is located over an inward portion of the disk, the first compensation angle A_1 is

from about 5 to about 15 degrees, and the second compensation angle A_2 is greater than about 1 degree.

20. (Original) The perpendicular magnetic recording system of Claim 19, wherein the first compensation angle A_1 is from about 6 to about 12 degrees, and the second compensation angle A_2 is from about 2 to about 6 degrees.

21. (Currently Amended) ~~The perpendicular magnetic recording system of Claim 14,~~ A perpendicular magnetic recording system comprising:

a perpendicular magnetic recording disk including magnetic recording tracks; and

a perpendicular magnetic recording head including a perpendicular write pole movable in an arc across the perpendicular magnetic recording disk, wherein the perpendicular write pole has a trailing edge and a side edge, the side edge is aligned at compensation angles with respect to the magnetic recording tracks, and the compensation angles remain greater than or equal to zero degrees when the write pole writes onto the magnetic recording tracks as the write pole moves in the arc across the magnetic recording tracks;

wherein the write pole has an aspect ratio of the length of the side edge to the length of the trailing edge of greater than 2:1.

22. (Original) The perpendicular magnetic recording system of Claim 21, wherein the aspect ratio is from about 5:1 to about 10:1.

23. (Original) The perpendicular magnetic recording system of Claim 21, wherein the write pole has a rectangular cross section.

24. (Canceled)

25. (Canceled)

26. (Canceled)